

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Masayuki ARIYOSHI et al.) Group Art Unit: UNASSIGNED
Application No.: UNASSIGNED) Examiner: UNASSIGNED
Filed: June 28, 2001)
For: COMMUNICATION METHOD AND ITS)
POWER CONTROL METHOD)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 3, 9 and 15 as follows:

3. (Amended) A communication system in accordance with claim 1, wherein said base station further comprises:

first signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said first reception signal; and

second signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said first reception signal after interference cancellation by said interference canceling means; and

said interference cancellation effect estimating means estimates the post-interference cancellation signal-to-interference power ratio for the current reception signal based on the signal-to-interference power ratio of the current reception signal obtained from said first signal-to-interference power ratio measuring means and the post-interference cancellation

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signal-to-interference power ratio for said first reception signal of the past obtained from said second signal-to-interference power ratio measuring means.

9. (Amended) A base station device in accordance with claim 7, further comprising first signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said reception signal; and

second signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said reception signal after interference cancellation by said interference canceling means;

wherein said interference cancellation effect estimating means estimates the post-interference cancellation signal-to-interference power ratio of the current reception signal based on the signal-to-interference power ratio of the current reception signal obtained by said first signal-to-interference power ratio measuring means and the post-interference cancellation signal-to-interference power ratio of said reception signal of the past obtained by said second signal-to-interference power ratio measuring means.

15. (Amended) A power control method in accordance with claim 13, further comprising:

measuring the signal-to-interference power ratio of said reception signal and measuring the signal-to-interference power ratio of said reception signal after interference cancellation, and estimating the post-interference cancellation signal-to-interference power ratio of the current reception signal based on the resulting signal-to-interference power ratio of the current reception signal and the post-interference cancellation signal-to-interference power ratio of said reception signal of the past.

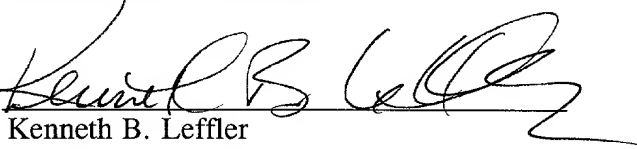
REMARKS

The above changes to the claims have been made to delete multiple dependency of the claims, to round out the scope of patent protection being sought, and generally to place the claims in better condition for examination on the merits.

Respectfully submitted,

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Attachment to Amendment dated June 28, 2001

Marked-up claims 3, 9 and 15

3. (Amended) A communication system in accordance with [either claim 1 or 2] claim 1, wherein said base station further comprises:

first signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said first reception signal; and

second signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said first reception signal after interference cancellation by said interference canceling means; and

said interference cancellation effect estimating means estimates the post-interference cancellation signal-to-interference power ratio for the current reception signal based on the signal-to-interference power ratio of the current reception signal obtained from said first signal-to-interference power ratio measuring means and the post-interference cancellation signal-to-interference power ratio for said first reception signal of the past obtained from said second signal-to-interference power ratio measuring means.

9. (Amended) A base station device in accordance with [either claim 7 or 8] claim 7, further comprising first signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said reception signal; and

second signal-to-interference power ratio measuring means for determining the signal-to-interference power ratio of said reception signal after interference cancellation by said interference canceling means;

wherein said interference cancellation effect estimating means estimates the post-interference cancellation signal-to-interference power ratio of the current reception signal based on the signal-to-interference power ratio of the current reception signal obtained by said first signal-to-interference power ratio measuring means and the post-interference cancellation signal-to-interference power ratio of said reception signal of the past obtained by said second signal-to-interference power ratio measuring means.

15. (Amended) A power control method in accordance with [either claim 13 or 14] claim 13, further comprising:

measuring the signal-to-interference power ratio of said reception signal and measuring the signal-to-interference power ratio of said reception signal after interference cancellation, and estimating the post-interference cancellation signal-to-interference power ratio of the current reception signal based on the resulting signal-to-interference power ratio of the current reception signal and the post-interference cancellation signal-to-interference power ratio of said reception signal of the past.